New Dutch East Indian Lamiinae

(Col., Cerambycidae)

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The following new species are for the major part from islands in the Dutch East Indian Archipelago. The types are in the British

Museum (Natural History) or in my own collection.

The second half of this paper deals with a number of new species of T mesistern in i, a tribe which has the genera Tmesisternus Latr., and Trigonoptera Pasc., as its largest members. These two genera are extremely widely distributed throughout the East Indies, but there are numerous gaps in this, particularly from some of the lesser known islands. I would therefore, like to appeal to all collectors out there, or even those with small collections of material from this region, to send it in for examination, so that our knowledge of the tribe may be perhaps increased.

Agnia eximia Pasc. var. abasomaculata nov.

This very distinct variety differs noticeably from the typical form in lacking the median longitudinal pronotal band, which is reduced

to a very small anterior spot, and the two lateral bands do not reach the posterior margin; all the white markings on the basal half of the elytra in front of the premedian band are missing, and the remaining spots tend to be as in ab. albofasciata Breun., where they are united to form transverse bands.

Length, 15.5 mms., breadth, 5.8 mms. Ternate. Holotype (&) in my collection. Unique.

Triammatus waigeuensis sp. nov.

Male: Black, covered with pale brownish pubescence, which is more or less uniform. Head and pronotum almost immaculate above, the latter with a narrow, very vague, slightly lighter brown longitudinal band on each side of the disc. The elytra with about four very small velvety dark brown spots, (which may be partially united, or slightly subdivided) on each elytron, one pair at about the basal third, and the other pair immediately behind the middle;



Fig. 1.
Agnia eximia
basaomaculata
Pasc. var.
nov ³ (× 5 2).

a few irregular, less distinct, smaller spots apically along the suture and at the apex. The underside covered with greyish-brown pubescence, with a densely pubescent white lateral longitudinal band extending from the lower lobes of the eyes as far as the posterior border of the metasternum.

Elongate, moderately robust.

The antennae one and a half to one and three-quarter times as long as the body; with a few very sparse hairs beneath on the basal segments; the scape fairly elongate, bearing a large distinct complete apical cicatrix, about one and a third times as long as the



Fig. 2. Triammatus waigeuensis

fourth segment, which is about equal in length to the scape: the third, fourth and fifth segments very strongly swollen apically; all the segments very finely and closely punctured, the scape with a number of scattered larger punctures. The antennal tubercles strongly lobularly prolonged vertically, very closely approximated. The lower lobes of the eyes as broad as long; about as long as the genae. The frons strongly trapezoidal; the whole head fairly finely and closely punctured, with a number of larger scattered punctures on the vertex, and more closely on the upper part of the frons. The prothorax transverse, with a slender, pointed spine in the middle of each side: with two anterior and two posterior transverse grooves, of which the median two are the strongest; the disc very finely transversely rugose; a number of conspicuous granules laterally and at the base of the spines: the whole very finely and closely punctured. The scutellum slightly transverse, broadly sp. nov. $\delta(\times 4.5)$, rounded apically; finely and closely punctured. The elytra elongate; broad basally, distinctly attenuate

to the apices which are broadly rounded; covered densely with quite large, distinct granules on the basal quarter, these becoming smaller there and changing to large distinct, fairly well-separated punctures, which gradually become finer towards the apex; the interstices

closely micropunctate.

The underside completely very finely and closely punctured; the prosternal protuberance not as high as the coxae, regularly rounded: the mesosternal protuberance with a broad, distinct, large obtuse tubercle, and vertically truncate anteriorly. The apical ventrite about twice as long as the preapical, and truncate apically. The legs of moderate length, with the anterior distinctly elongate; the femora moderately claviform; the anterior tibiae with a strong spinous tubercle internally; the intermediate tibiae with an external groove, limited proximally at the middle by a distinct tubercle; all finely and closely punctured, with sparse larger punctures scattered here and there; the tarsi rather broad, with long lateral hairs.

Length, 18.5—21 mms., breadth, 6—7 mms.

Waigeu. HOLOTYPE (3) and PARATYPE (3) in my collection. This very distinct new species appears to be rather smaller than the other species of the genus. It is most closely allied to the male of $T.\ tristis$ Pasc., in general fascies, but differs conspicuously in colours, the latter species having a complete leaden-grey pubescence, with larger black maculae.

Pericycos teragramus sp. nov.

Completely black. The head with yellow maculae as follows: an elongate one on each side of the frons; a rounded one on each gena, and a large one on the vertex. The tibiae, tarsi and first six antennal segments covered with fine sparse greyish pubescence; the apical five antennal segments covered with fine, sparse brownish pubescence. The pronotum, the scutellum, the underside, the femora and the extreme elytral apex covered with pale ochraceous-yellow pubescence, except the middle of the ventrites which are black and glabrous; this pubescence most dense on the metasternum and the ventrites laterally. The elytra covered with variably confluent, metallic green or bluish maculae, with shining black granules, and

the interstices glabrous black and shining.

Male: Moderately robust and elongate. Antennae robust, about one and a fifth times as long as the body, with a few very sparse setae below on the basal segments; the scape moderately elongate, with a complete apical cicatrix; the third segment about one and a seventh times longer than the fourth, about one and a third times as long as the scape; the following segments gradually decreasing; the third to sixth segments with a small preapical depression externally; all the segments very finely and fairly closely punctured, The frons trapeziform, moderately and fairly closely punctured; the genae a little more coarsely punctured; the vertex sparsely punctured laterally; the antennal tubercles moderately raised, and fairly closely approaching. The pronotum very slightly transverse (about 28:25); narrowed apically, slightly rounded laterally, with an extremely small infero-lateral tubercle on each side: trilobed basally; with two anterior and two posterior transverse grooves, each pair widely separated, and the inner of each pair strongly medially sinuate on the disc, with a rather distinct depression at the middle of each; the whole completely covered with close, small, shining black granules, the interstices extremely finely and sparsely punctured. The scutellum slightly transverse, subtriangular, narrowly rounded apically; micropunctate. The elytra elongate, convex; each with a strong basal rounded lobe projecting anteriorly on each side of the scutellum, and with two slightly raised, obtuse longitudinal carinae on about the apical two-thirds; covered with fairly fine shining granules, which are closest basally, and change to sparse punctures suturally; the interstices irregularly, finely micropunctured.

The underside very finely punctured, closely laterally, rather less close medially, particularly on the ventrites. The prosternal protuberance moderately broad, about as high as the coxae, rounded anteriorly, more or less vertically truncate posteriorly. The mesosternal protuberance bearing a very large, strongly anteriorly projecting

tubercle. The apical ventrite slightly truncate apically. The legs of moderate length; the femora scarcely swollen, almost linear; the intermediate tibiae grooved externally; the tarsal segments broad,

with long black lateral setae.

Female: Distinctly more robust than the male. (The antennae broken from the fourth segment, but probably about as long as the body). The apical ventrite rather strongly emarginate apically, and bearing a long dense tuft of black hairs on each side. The tarsi not as broad as in the male, and with much shorter lateral setae.

Length, 19—24 mms., breadth, 6.5—9 mms.

Sarawak: Mt. Merinjak (Allotype) and Sarawak (No further data) (Holotype). Holotype (&) in my collection. Allotype (\, \varphi\)

in the British Museum (Nat. Hist.).

This new species is most closely allied to *P. princeps* Pasc., from which it can be immediately distinguished by the elytral sutural spots not being yellow and the labrum not yellow. It may be separated from the other species as shown in the following key.

— The labrum black; elytral sutural spots metallic green, like the rest teragramus sp. n.

4. The lateral pronotal spine distinct; the elytra with granules over their whole length, except suturally guttatus Heller
The lateral pronotal spine scarcely distinguish-

able; the elytra only granular on the basal third varieguttatus Schwarz.

Cylindrepomus peregrinus Pasc., var. connexa nov. This variety differs from the typical form in its elytral markings. In long series the typical form is found to be very constant, but in this variety the second and third transverse greyish fascia are connected or almost connected, by a distinct prolongation from each band medially.

The holotype (fig. 3a) has the black pronotal markings very small and inconspicuous, while in the paratype (fig. 3b) they are very enlarged and coalesced to form a large lateral longitudinal macula on each side. As these vary considerably from specimen to specimen in typical series, no varietal importance can be attached to this difference.



Fig. 3.

Cylindrepomus
peregrinus Pasc.,
var. connexa nov.
3. a. holotype;
b. paratype.

Length, 9.5-14 mms., breadth, 2-3.5 mms.

Java (No further data). HOLOTYPE (&) and PARATYPE (&) in the British Museum (Nat. Hist.).

Cylindrepomus grammicus Pasc., var. waigeuensis nov.

This new variety is distinctly different from the typical and other forms of the species in the elytral sutural longitudinal yellowish band being divided, and missing from about the middle to about the apical third or quarter. (This is not due to 'rubbing' as it is constant in all the specimens examined). The pronotal longitudinal bands are narrow as in the typical form, and the holotype lacks the longtudinal bands on the vertex as in subsp. hecate Dillon & Dillon, but these are fairly distinct, though very narrow on the other specimens.

Length. 16—16.5 mms., breadth, 3.2—3.5 mms.

Waigeu: Camp Nok, 2,500 ft. (April, 1938, L. E. Cheesman) (Holotype and 1 paratype). Waigeu (No further data) (Paratype). HOLOTYPE (3) and 2 PARATYPES (3) in the British Museum (Nat. Hist.)

One paratype has the right antenna missing from the scape, and the other has both antennae missing from the scape, although the latter is in better condition than the others as regards pubescence.



Fig. 4. Cylindrepomus grammicus Pasc., var. waigeuensis nov. 8.

Amblymora V-flava sp. nov.

Female: Moderately robust, elongate.

Dark brown; completely covered above and below with more or less uniform brownish pubescence, which is somewhat greyish-brown towards the elytral apex, where there are also a few small irregular glabrous areas. On each elytron there is a pale yellow, oblique, very narrow fascia on the disc, extending from the basal sixth behind the humerus, and less laterally, to the suture at the basal third, forming a broad V with that of the opposite elytron. The ventrites irregularly glabrous medially with grey apically and basally.

The antennae about one and a seventh times as long as the body; slender; fairly densely fringed beneath, except the scape, and the apical two segments much more sparsely; the scape rather elongate, subcylindrical; the third segment elongate, almost twice as long as the fourth; the fifth shorter than the third; the rest gradually decreasing, except the apical which is again slightly elongate; all the segments Fig. 5.

Amblymora vflava sp. nov. 9. bercles very slightly raised, widely separated. The



eyes strongly emarginate, rather closely approaching above; the lower lobes large, slightly elongate, about four times as long as the genae. The frons distinctly elongate, slightly convex, with a very fine median longitudinal groove from the upper part, extending to the posterior border of the head; very strongly and fairly closely, coarsely punctured; the interstices and the vertex closely micropunctured. The prothorax slightly transverse; with a small, very pointed lateral tooth slightly behind the middle on each side; rather strongly convex, and rounded laterally; narrowed anteriorly; the disc completely covered with very large, quite close, coarse punctures which become rather smaller infero-laterally; the interstices closely micropunctured; with a very slight basal transverse broad groove. The scutellum slightly transverse, subtriangular, narrowly rounded apically; closely micropunctured. The elytra elongate; rather strongly convex; distinctly attenuate, but slightly rounded to the apex; the apices rather narrow, obsoletely, and slightly obliquely truncate, the sutural and marginal angles rounded; each elytron with four fairly distinct, but obtuse, longitudinal carinae; coarsely and fairly closely punctured basally, then seriately punctured, with a single row between each carina, and more irregularly laterally, becoming much finer apically.

The underside completely, fairly closely micropunctured. The prosternal protuberance broad, as high as the coxae; transversely and vertically truncate posteriorly. The mesosternal protuberance broader than the prosternal; very slightly concave, but almost transversely truncate, and vertically truncate anteriorly. The apical ventrite about one and a half times as long as the preapical; truncate apically; (the ovipositor slightly more than twice as long as the apical ventrite). The legs of moderate length; slender; the femora clavate; (Pascoe in his generic description states 'fusiform', but the braodest point is not median, but distal!); the intermediate tibiae grooved externally; all very finely and closely punctured; the tarsi elongate and slender, and all the segments about equal in

length.

Length, 10 mms., breadth, 3.5 mms.

Aru. HOLOTYPE (9) in the British Museum (Nat. Hist.).

This new species is probably most closely allied to A. fumosa Pascoe, but differs conspicuously from that species and all the other known species of the genus in the pale oblique yellow band

on each elytron, as well as minor differences.

PASCOE mentions (1867, Trans. Ent. Soc. Lond. (3) 3 456) under his species consputa, (to which the above newly described species shows distinct affinities), a slightly different specimen from Aru, but I have not been able to discover a specimen under this species in the British Museum (Nat. Hist.) which agrees with v-flava Gilmour from the same island.

TMESISTERNINI Thomson.

Trigonoptera immaculata sp. nov.

Male: Rather small compared to the other species; elongate.

Pitchy-brown; covered above with thin brownish pubescence; the frontal groove and ocular margins very sparsely whitish pubescent; on each side of the pronotum an obscure brownish-ochraceous irregular macula; the elytra almost uniformly pubescent, with slight lighter brown patches apically; the underside, legs and antennae thinly greyish pubescent.

The antennae a little more than a seventh longer than the body (the eleventh segment is missing); slender; sparsely fringed beneath; the scape more or less elongate, subcylindrical; the third

segment slightly sinuate, elongate, about one and a third times as long as the fourth segment, and about one and a half times as long as the scape; the rest gradually decreasing. The antennal tubercles scarcely raised, almost flat. The frons very slightly trapeziform and slightly transverse, with a distinct, fine, median longitudinal groove, which extends to the posterior border of the head; the whole head very finely and closely punctured. The eyes strongly emarginate, the lower lobes large, slightly transverse, about three times as long as the genae. The pronotum about one and a half times as broad as long: convex: trilobed basally: bearing a small spine laterally on each side a little behind the middle; finely, moderately closely punctured, more closely apically, with a narrow median longitudinal impunctate region. The elytra elongate, attenuate to the apex; the apex slightly emarginate, the sutural angle spinous, the marginal angle shortly spined; the whole covered with moderately large, not very close punctures, which become slightly smaller to the apex.

The underside completely very finely, and fairly closely punctured; the prosternal protuberance broad, as high as the coxae, truncate posteriorly



Fig. 6.
Trigonoptera immaculata sp. nov. 3 (× 8.4).

and rather strongly posteriorly projecting; the mesosternal protuberance broad, bilobed anteriorly; the apical ventrite a little longer than the preapical; rather narrowly truncate apically. The legs of moderate length; the femora claviform; the intermediate tibiae grooved; all very finely and closely punctured; the tarsi moderately elongate.

Length, 8 mms. breadth, 2.8 mms.

Japen Island (= Jobi Island). HOLOTYPE (&) in the British Museum (Nat. Hist.), unique.

This is the smallest species of the genus now known. It is perhaps most closely allied to *T. obscura* Gilmour, in being similarly almost immaculate, but differs from that species in lacking the long

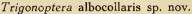
setae. It differs from all the other species by the elytra being immaculate, and without distinguishable, even faint, longitudinal

Trigonoptera sulcata Auriv. var. reversa nov.

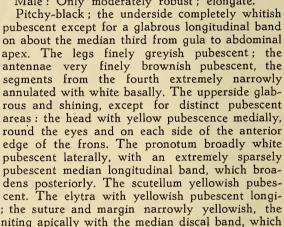
This variety differs conspicuously from the typical form in the premedian broad elytral spot being much broader laterally than towards the suture. The apex is also more broadly grey; this macula extending marginally a little and not restricted to the suture.

Length, 11.5 mms., breadth, 4 mms.

Waigeu: Lamlam. HOLOTYPE (♀) in the British Museum (Nat. Hist.), unique.



Male: Only moderately robust; elongate.



tudinal maculae; the suture and margin narrowly yellowish, the marginal band uniting apically with the median discal band, which is almost complete from the base; a lateral discal band between these two, complete from the base to a little past the middle, then broken into an elongate posterior macula: between the median discal band and the suture is a more broken band of elongate spots reaching to about the apical third, which is somewhat bifurcate

anteriorly.

The antennae slender, about one and a fifth times as long as the body; sparsely fringed beneath, but rather lengthily on the scape and third segment; the scape elongate, rather slender, slightly arcuate, subcylindrical; the third segment slightly sinuate, about one and a quarter times as long as the fourth segment, which is about equal in length to the scape; the rest gradually decreasing; all micropunctate. The antennal tubercles flat. The frons slightly trapeziform, about as broad as long, with a fine median longitudinal groove; with a distinct short anterior carina, which bifurcates medially, the two thus formed running to the vertex and each bifurcating again, the median pair uniting medially, the external pair running to the posterior border of each eye and becoming



Fig. 7. Trigonoptera sulcata Auriv., var. reversa nov. ♀ (× 5.8).

obsolete. The whole head extremely finely and closely punctured; a few larger punctures on each side of the frons. The eyes very strongly emarginate; the lower lobes moderately strongly swollen. transverse, almost two and a half times as long as the genae. The pronotum about one and a third times as broad as long; convex; trilobed basally; bearing a very small lateral spine on each side, a little behind the middle; a little coarsely and rather sparsely punctured. The scutellum slightly transverse, broadly rounded. micropunctate. The elytra elongate, strongly attenute to the apex,

which is distinctly emarginate, both sutural and marginal angles being distinctly spinous, the marginal projecting more than the sutural; moderately closely granularly punctured basally, thence with five to eight very irregular rows of large punctures to a little past the middle, thence much more finely

punctured and more sparsely to the apex.

The underside completely, rather sparsely, micropunctate medially, much more closely laterally, (where pubescent); the prosternal protuberance very broad, almost as high as the coxae, broadening and truncate apically and strongly projecting posteriorly; the mesosternal protuberance very broad, bilobed anteriorly; the apical ventrite about one and a quarter times as long as the preapical and truncate apically. The legs slender, of moderate length; the femora moderately claviform; all fairly closely micropunctured; the tarsi not very elongate.

Length, 11.5 mms., breadth. 3.75 mms.

Japen Island: Manai River, HOLOTYPE (3) in

the British Museum (Nat. Hist.). Unique.

This distinct new species is most closely allied to T. lateplagiata Breun, but differs conspicuously in not having a greenish tint; in the head being almost albocollarissp., nov. completely pubescent; in the pronotal lateral ma- δ (x 5.8), culae being white, not ochraceous, and continued



Trigonoptera

to the underside, and the elytral markings being more distinct.

Trigonoptera breuningiana sp. nov. Male: Not very robust; elongate.

Black, shining; the legs and underside finely greyish pubescent, except for a median irregular, longitudinal glabrous band on the sternum and ventrites. The upperside glabrous except for distinct dense pubescence as follows: the head almost completely white pubescent except for a median frontal band, which diverges at the vertex and then trifurcates to the apex of the antennal tubercles and the posterior border of the head; the pronotum with a large pale yellowish or ochraceous lateral macula on each side, which narrows towards the anterior border, which it does not reach, and is strongly emarginate anteriorly; the scutellum sparsely whitish pubescent apically; the elytral suture and margin narrowly white;

on each elytral disc three distinct longitudinal white bands, which are distinctly broken just before the basal quarter, thus forming an oblique black band from beneath the humerus to the suture at the basal quarter; the innermost band sometimes uniting with the marginal at the apex; the lateral almways complete and the median sometimes complete, or sometimes broken into two elongate spots; the antennae very finely brownish pubescent, sometimes a little greyish externally, the third to sixth or eighth segments narrowly and rather vaguely (particularly on the apical segments) annulate with grey basally.

The antennae slender, about one and a third as long as the body; rather distinctly fringed beneath on the basal five segments; the



Fig. 9.
Trigonoptera
breuningiana sp.
nov. § (×7).

scape elongate, obconical, equal in length to the fourth segment; the third segment about one and a quarter times as long as the scape; the rest gradually decreasing; all micropunctate. The frons slightly trapeziform, very slightly broader than long, with a fine median longitudinal groove; with a rather obsolete bifurcating anterior carina; with a number of very large punctures between the base of the antennal tubercles, and a few on each side of the frons and on the vertex; the interstices micropunctate. The eyes almost subdivided; the lower lobes moderately swollen, distinctly transverse and about one and a half times as long as the genae. The pronotum about one and a third times as broad as long; convex; trilobed basally; bearing a very obtuse lateral spine on each side a little postmedially; the whole covered rather evenly with large moderately close punctures. The scutellum very slightly elongate, rounded apically; micropunctured. The elytra elongate, strongly attenuate to the apex, which is extremely slightly emarginate, almost truncate, with sutural and marginal angles very slightly spiniform; about the basal two-thirds covered irregularly with very

large, variably sparse, punctures, which stop rather abruptly towards the apical third, the interstices and apical third closely micropunctured.

The underside very finely and fairly closely punctured; the prosternal protuberance moderately broad, almost as high as the coxae, truncate apically and moderately posteriorly projecting; the mesosternal protuberance very broad, vertically truncate and very slightly bilobed anteriorly; the apical ventrite slightly longer than the preapical, and very slightly rounded apically. The legs slender, of normal length; the femora strongly clavate; all fairly closely micropunctured; the tarsi moderately elongate.

Length, 9-10 mms., breadth, 3.25-3.6 mms.

Dutch New Guinea; Mimika (4° 35′ S. 136° 30′ E) (Holotype), Modowi (Paratype). Holotype (3) and Paratype (3) in British Museum (Nat. Hist.).

This species is most closely allied to T. laterplagiata Breun., but differs conspicuously in the elytral bands being white, not yellow, and in them not being at all broken medially, as well as in minor structural details.

Trigonoptera neja sp. nov.

Female: Moderately robust, elongate.

Black, shining; the legs finely greyish pubescent; the underside glabrous medially, pubescent laterally (in this specimen this pubescence is matted and dirty blackish-brown, but will probably be found to be greyish in a fresh specimen); the antennae very finely brownish pubescent, somewhat intermixed with greyish on the basal segments. The eyes margined with dense whitish-yellow pubescen-

ce; the frons with a similarly coloured spot on each side anteriorly, and the broad groove of the vertex densely pubescent. The pronotum with only a few small inconspicuous sparse patches of greyish pubescence. The elytra almost completely greyish pubescent, except for the humeri, and an elongate postscutellar spot, a median elongate spot on each side of the suture, and three narrow glabrous longitudinal carinae on each elytron, which unite preapically in succession from suture to margin, the lateral carina extending to the apex; the elytra with large, sparsely scattered black punctures.

The antennae slender, reaching to about the apical sixth of the elytra; sparsely fringed beneath on the basal five segments; the scape elongate, subcylindrical, about equal in length to the third segment and about one and a third times as long as the fourth; the rest gradually decreasing; all micropunctured, those on the scape slightly larger. The frons very slightly trapeziform, distinctly transverse, with a fine median basal carina which bifurcates medially, (and is joined there by a much finer carina from each side of the labrum), each carina running to the vertex and becoming gra-



Fig. 10. Trigonoptera neja sp. nov. $^{\circ}$ (\times 4.4).

dually obsolete posteriorly; a number of coarse punctures on each side of frons, the rest of the head very finely and closely punctured. The eyes almost subdivided; the lower lobes distinctly swollen, transverse and about twice as long as the genae. The pronotum one and a quarter times as broad as long; convex; moderately trilobed basally; with an obtuse lateral spine on each side a little behind the middle; the whole covered with numerous large punctures, the interstices closely micropunctured. The scutellum slightly elongate, glabrous, micropunctured. The elytra elongate, slightly rounded, but strongly attenuate to the apex, which is rather strongly emarginate, both sutural and marginal angles spinous, the latter the longest; the humeral region with a number of obtuse small tubercles; the whole with large, sparse, scattered punctures, somewhat

subseriately arranged, the interstices closely micropunctured.

The underside finely micropunctured; the prosternal protuberance very broad, truncate posteriorly, and strongly posteriorly projecting; the mesosternal protuberance extremely broad, and strongly bilobed anteriorly; the apical ventrite almost twice as long as the preapical, with an obtuse median longitudinal groove, and broadly truncate apically. The legs slender, not very elongate; the femora moderately clavate; all finely micropunctured; the tarsi rather slender and moderately elongate.

Length, 15 mms., breadth, 4.8 mms.

Koberi, 8,000 ft. (I have been unable to find this locality). HOLOTYPE (9) in the British Museum (Nat. Hist.). Unique.

This species is rather distinct from any other in the genus, but is perhaps most closely allied to T. maculata Perroud or T. vittata Gestro, but differs conspicuously from both, in lacking pronotal markings, and in the elytra being almost wholly greyish pubescence.

Key to the Genus Trigonoptera Pascoe

| | Rey to the Genus Trigonopiera Fascoe |
|----|---|
| _ | Elytra more or less dark unicolorous, without any light coloured spots or markings |
| | |
| | defined; no numerous distinct long setae |
| 3. | Elytra marked with red spots ornata McLeay 1886. |
| — | Elytral spots not red 4 |
| 4. | Elytra with a complete white transverse premedian fairly re- |
| | gular band 5 |
| _ | Elytra without a complete transverse band |
| Э. | Scutellum covered with pale yellow pubescence |
| | Scutellum covered with brown pubescence |
| 6. | Elytral markings clearly whitish, irregular, those in the apical |
| | half tending to ramify; lacking a marginal band, except api- |
| | cally; the sutural band not joining the transverse premedian |
| | band pseudomaculata Breun. 1939. |
| _ | Elytral markings clearly yellow, fairly regular, those in the |
| | apical half not ramifying; a more or less complete marginal band present; the sutural band uniting with the premedian |
| | transverse band transverse fasciata Gilmour 1949. |
| 7. | Each elytron with a large transverse premedian white spot 8 |
| _ | Elytra without this spot |
| 8. | This spot extremely broad near the suture |
| | sulcata Auriv. s.str. 1924. |
| | This spot not broadened suturally |
| | |

| 9 | This spot extremely broad marginally |
|------------|---|
| ٠, | sulcata Auriv, ab. reversa nov. |
| — | This spot neither broadened suturally or marginally, and fairly regular |
| 10. | At the basal quarter and apical third of each elytron is a curved |
| | clear white line |
| | nal whitish bands |
| 11. | A number of small spots at the base of the elytra; the longitudinal whitish line, in the apical third, not reaching the lateral |
| | border spilonota Gestro, s.str. 1876. |
| - | Without a number of white small spots at the base of the elytra, only a short curved longitudinal line; the longitudinal white |
| | line in the apical third reaching the lateral border |
| 12. | |
| | band leptura Gestro 1876. |
| | Pronotum covered with uniform ochraceous pubescence 14 |
| <u> </u> | Pronotum not uniformly pubescent |
| | flavicollis Breun, 1940. |
| _ | The sutural band reduced to the apical quarter; the second and third reduced to small elongate spots |
| | flavicollis Breun. ab. stictica Breun. 1940. |
| 15. | Elytra marked with clear round spots, without bands 16 Elytra marked with longitudinal bands 21 |
| | Pronotum covered with small round spots, without bands |
| | guttulata Gestro 1876. Pronotum marked with a longitudinal light band on each side 17 |
| <u>17.</u> | Pronotum without clear discal spots |
| 1.0 | |
| 18. | Head without any ochraceous spots, except two at the anterior border of the frons; with two pronotal bands; underside with |
| | no lateral longitudinal ochraceous band |
| | |
| | derside with a lateral ochraceous band gracilis Auriv. 1917. |
| 19. | Elytral spots yellow and small |
| | Elytral punctures obsolete in the apical half |
| | |
| 21. | On each side of the pronotum a large oval spot, sometimes |
| | broadened and almost bandlike basally 22 Pronotum without this spot 24 |
| 22. | Pronotal maculae pure white albocollaris sp. nov. |
| | Pronotal maculae yellow or ochraceous |
| 43. | Elytral longitudinal bands yellow, somewhat ill-defined and distinctly, fairly broadly broken medially at least, and someti- |
| | mes basally |
| | |

| _ | Elytral longitudinal bands pure white; clearly defined and regular; complete on the whole, only transversely broken basally |
|-----------------|--|
| | Elytral punctures surrounded with a very small black circle, (at least on about the basal half), which interrupt the clear |
| <u></u> 25. | markings |
| | extending to the base |
| 26 | guite reaching the base |
| 26. | Pronotum without either light coloured spots or bands; almost completely dark, with only a few, very indistinct light hairs neja sp. nov. |
| 27. | Pronotum with distinct light coloured markings |
| | maculata Perroud 1855. |
| 28. | Pronotum marked with bands vittata Gestro 1876. Ferrugineous (with ochraceous markings) |
| | flavipicta Pasc. 1867. |
| 29 | Black or pitchy |
| ۵, | spined) |
| | Elytra not obliquely truncate apically (the marginal angle also spined) |
| 30. | Pubescence above greyish-white; elytral bands strongly broadened premedially and forming transverse triangular spots; |
| | lower lobes of the eyes twice as long as the genae; without distinct punctures in the apical quarter of the elytra |
| _ | Pubescence ochraceous or yellow; elytral bands narrow, not broadened; lower lobes of the eyes not more than one and a |
| | half times as long as the genae; with distinct punctures in the |
| 31. | apical quarter of the elytra |
| | elytral punctures with a very small dark brown circle |
| | |
| | Elytra finely and less closely punctured; no punctures with brown circles |
| 32. | Elytra with an irregularly rounded spot at the basal third, which is the breadth of the two sutural bands |
| | isabellae Gilmour 1949. Elytra without a similar spot |
| 33. | Elytral bands irregularly broken; pronotal median bands broken, or lacking; the lower lobes of the eyes one and a half |
| | times as long as the genae sordida Pasc. 1867. |
| | Elytral bands fairly regular; the pronotal bands complete; the |
| | lower lobes of the eyes twice as long as the genae |
| | margaretae Omnour 1717. |

Tmesisternus (Arrhenotus) breuningi sp. nov.

Black, glabrous and shining, except for pale yellow pubescent markings as follows: — the frons laterally and medially, and surrounding the eyes; a narrow band on each side of the vertex. The pronotal disc with two narrow rather sinuate longitudinal bands on each side, each pair uniting anteriorly and posteriorly. The scutellum with a small oval macula on each side. Each elytron marked with five, irregularly broken, longitudinal rows of very small yellowish spots: — a sutural, a lateral and three on the disc, these placed in the grooves between the almost obsolete and very obtuse longitudinal carinae; these spots tend to form themselves into transverse series, most distinctly in the apical half, where the spots are

a little larger. The underside covered with pale yellow pubescence laterally, glabrous medially. The antennae dark brown, covered with very fine brownish pubescence. The femora and tibiae green, the base of the femora and the tarsi light ferrgineous; shining, almost glabrous, covered with very fine sparse pale

vellowish pubescence.

Male: Only moderately robust; very elongate. The antennae about as long as the body; rather sparsely fringed beneath; the scape about equal in length to the third segment; the fourth segment about one and a quarter times as long as the third; all segments micropunctured. The frons very finely and fairly closely punctured with a few very sparse large punctures here and there. The vertex very finely and fairly closely punctured. The lower lobes of the eyes rather strongly swollen, transverse, about twice as long as the genae. The pronotum about twice as broad as long; strongly broadened horizontally anteriorly. the antero-latero-superior tubercle continued in a lateral carina; the infero-medio-lateral tubercle very squat and obtuse; the disc with four obtuse longitudinal pubescent grooves, which are very coarsely punctured along with the lateral glabrous border; smooth and almost impunctate medially, with only a



Fig. 11.
Tmesisternus
(Arrhenotus)
breuningi sp.
nov. 3 (× 6).

few large scattered punctures. The scutellum transverse, broadly rounded apically; the median glabrous band not very closely micropunctured; closely micropunctured laterally, where pubescent. The elytra very elongate, very gradually and slightly rounded to the apices, which are rather strongly emarginate, both sutural and marginal angles being shortly spined; each disc with very faint traces of two almost obsolete longitudinal carinae; irregularly covered with large scattered punctures, sparsely basally, becoming much more close to the middle, thence becoming finer and more sparse to the apex; the interstices very finely micropunctured.

The underside very closely and finely punctured laterally; not very closely, and very finely micropunctured medially; the apical ventrite very slighty longer than the preapical and broadly truncate apically. The femora very strongly clavate; the legs only moderately

closely micropunctured.

Female: Similarly coloured to the male. A little more robust than the male. The antennae somewhat shorter. The pronotum not broadest anteriorly, and much more convex. The elytral apices slightly obliquely emarginate. The apical ventrite about one and a half times as long as the preapical; slightly emarginate apically and with a distinct fine median longitudinal groove.

Length, 11—13 mms., breadth, 3.2—4 mms. Waigeu (3,000 ft. C. J. J.) HOLOTYPE (◊) and ALLOTYPE (♀)

in the British Museum (Nat. Hist.).

This distinct new species is most closely allied to T. (A.) seriemaculatus Breun, but differs conspicuously in the elytral yellow maculae being much smaller and arranged in five longitudinal series. not three.

Tmesisternus (s.str.) cinnamomeus sp. nov.

Male: Elongate, robust.

Pitch-black. Covered almost completely and more or less uniformly above and below with rather dark yellowish-orange pubescence, except for narrow black glabrous lines as follows: on the

middle of the frons and vertex; one on each side of the frons extending to the apex of the antennal tubercles; two from the posterior border of the lower lobes of the eyes, one lateral and one discal; a narrow median longitudinal one on the pronotum, and a very narrow median one on the scutellum. The elytral pubescence very vaquely lighter in parts. The underside glabrous and shining medially from the submentum to about the middle of the epical ventrite.

The antennae slender, almost reaching the elytral apex; fringed beneath, becoming sparser towards the apical segment; all micropunctate. The frons with a strong median grooved carinae; a strong lateral one on each side extending to the antennal tubercle and shortly branching postero-medially; the whole head finely and fairly closely punctured. The lower lobes of the eyes strongly transverse, nearly twice as long as the genae. The pronotum transverse distinctly narrowed anteriorly; the antero-latero-superior tubercle isolated; the medio-infero-lateral moderately large and distinct; the disc sparsely covered with large irregular punctures, the interstices very finely and closely punctured. The scutellum about as broad as long, very broadly rounded apically; closely micropunctured. The elytra very elongate, slightly rounded

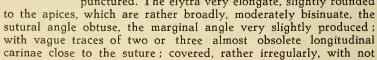




Fig. 12. Tmesisternus. (s. str.) cinnamoneus sp. nov. o (× 3.5).

very close, large punctures, which gradually become finer towards

the apex: the interstices closely micropunctured.

The underside with about the median quarter glabrous, shining and with a number of rather sparse micropunctures; laterally with sparse scattered large conspicuous punctures, the interstices densely micropunctured. The apical ventrite about one and a half times as long as the preapical and truncate apically. The legs moderately elongate: very finely and fairly closely punctured.

Length, 18.5 mms., breadth, 5.2 mms.

Ceram, Mansuela, HOLOTYPE (3) in the British Museum (Nat.

Hist.). Unique.

This distinct new species is probably most closely allied to T. (s.str.) demissus Breun., but differs conspicuously in its almost uniform pubescence and the apical marginal elytral angle not being triangularly produced.

Tmesisternus (s.str.) teragramus sp. nov.

Female: Elongate, robust.

Pitchy-brown. Covered with pale brownish pubescence and closely marbled above and below with greenish grey pubescence, except for glabrous narrow carinae as follows: - a median one

on the frons and vertex, joined on each side by one from the antennal tubercles which runs anteriorly onto the frons and then backwards: a median pronotal band, extended broadly onto the scutellum. On each elytron a pale brownish lateral antero-medially triangular macula, immediately behind the middle. The underside glabrous and

shining medially.

The antennae slender, (unfortunately both broken after the third segment); second and third segments fringed beneath, and micropunctured. The frons and vertex with a number of very large scattered punctures medially; the interstices very finely and closely punctured. The lower lobes of the eyes large, transverse, about twice as long as the genae. The pronotum transverse, rounded laterally and distinctly narrowing anteriorly; the antero-supero-lateral tubercle almost obsolete, isolated; the medio-infero-lateral tubercle small but distinct: the disc covered (except medially) fairly sparsely with very large punctures; the interstices finely and closely punctured. The scutellum very slightly transverse; broadly rounded apically; finely and closely punctured. The elytra very str.) teragramus elongate, almost parallel-sided for their basal two- sp. nov. 9 (× 4.3).



Fig. 13. Tmesisternus (s.

thirds, thence rounded to the apices, which are distinctly, but not very strongly, emarginate, the sutural angle distinct, the marginal slightly spinous; each disc with two almost obsolete longitudinal carinae, which unite preapically; covered basally with large, moderately close punctures, which become much finer towards the

apex; the interstices closely micropunctured.

The underside glabrous and sparsely micropunctured medially; laterally with a number of sparse moderately large punctures, the interstices very finely and closely punctured. The apical ventrite almost twice as long as the preapical, slightly emarginate apically and with a fine median longitudinal groove. The legs fairly robust; very finely and fairly closely punctured.

Length, 15.5 mms., breadth, 4.7 mms.

Aru. HOLOTYPE (9) in the British Museum (Nat. Hist.). Unique. This new species is most closely allied to T. (s.str.) griseus Thoms., from which it is immediately distinguishable in lacking a transverse median dark band reaching to the suture.

| | Key to the Genus Tmesisternus Latr. |
|----------|---|
| A. | Latero-superior tubercle of the pronotum isolated, not continued in an almost complete lateral carina |
| B. | This tubercle continued in a more or less complete lateral carina, which extends as far as, or nearly, the base of the pronotum |
| 1. | Subgenus <i>Tmesisternus</i> Latr. s.str. Elytra unicolourous cinnamon-brown pubescent; head, pronotum and underside (laterally) almost wholly similarly co- |
| | loured cinnamoneus sp. nov. Elytra with at least moderately distinct markings, either dis- |
| 2. | cally, or along the margin, or both |
| <u> </u> | Apical half of elytra never clear red |
| 4. | Basal half of elytra violet or dark blue speciosus Pasc. 1867. Elytra completely green, without grooves, only marked with some very small white spots viridipennis Breun. 1940. |
| 5. | Elytra never completely green 5 Each elytron marked with a broad longitudinal greyish-white discal band along almost its whole length 6 Elytra without a similar band 7 |
| 6. | Pronotum sparsely punctured; elytral band regular, not approaching the suture |
| | on the posterior half into several spots, of which one almost reaches the suture |
| 8. | Elytra without a similar band 8 Elytra marked with a transverse yellow band, which covers all |

| | their surface except the basal and apical parts |
|--------------|---|
| | Elytra without a similar band |
| 9. | On each elytron a broad yellowish or whitish band, which extends from the middle of the base to the lateral border behind the humerus; no other distinct markings |
| | humeralis Auriv. 1923. |
| | Elytra without a similar band |
| 10. | Elytra marked with a broad transverse, black, postbasal band |
| | (or at least a quadrangular spot) |
| <u></u> | Elytra without these designs |
| 11. | elyrra without ochacreous spots |
| | transversefasciatus Breun. 1939. |
| | This band does not reach the lateral border; the apical quarter |
| | of the elytra marked with ochraceous spots |
| | nigrofasciatus Auriv. 1908. |
| 12. | On each elytron a large, lateral premedian round black spot, |
| | and a small similar one at the internal border of the humeral |
| | callusquadrimaculatus Auriv. 1908. Elytra without these spots |
| 13. | Each elytron marked with quadrangular spots, formed by clear |
| 13. | green scales with a strong metallic lustre, arranged in three |
| | longitudinal series |
| | Elytra without similar spots |
| 14. | On each elytron a large lateral, posthumeral, premedian, whitish |
| | spot (rounded or triangular) on a dark ground colour 15 |
| 15 | Elytra without this spot |
| 1 <i>J</i> . | Elytra with numerous deep longitudinal grooves |
| | The clear posthumeral spot closely approaching the suture; |
| | (the apical marginal angle pointed) sulcatus Auriv. 1910. |
| | This spot only reaching the middle of the disc |
| 17. | The apical marginal angle rounded |
| | pseudosulcatus Schwarz. 1924. This angle spinous japeni Gilmour 1949. |
| 18 | On each elytron a round pale yellow spot at the middle of the |
| 10. | baselepidus Pasc. 1867. |
| | Elytra without this spot |
| 19. | On each elytron a clear premedian spot at the suture 20 |
| | Elytra without this spot |
| 20. | The apical sutural angle exceeding the marginal; pronotum |
| | with a lateral brown band |
| _ | brown band on the pronotum opalescens Pasc. 1867. |
| 21. | On each elytron a large light spot, which extends from the |
| | middle of the base obliquely behind as far as the suture |
| | mortyanus Thoms, 1865. |
| | Elytra without a similar spot |
| 22. | Elytra without a clear spot at the base |

| | Elytra with a clear spot at the base |
|-------------|--|
| 23. | The apical marginal elytral angle scarcely markedelongatus Breun. 1945. |
| | This angle spinous |
| 24. | Elytra finely punctured externemaculatus Breun. & De Jong |
| | Elytra coarsely punctured gebehensis Breun. & De Jong 1941. |
| 25. | The transverse postmedian band reaching the suture; the posthumeral spot is rounded wiedenfeldti Auriv. 1910. |
| — | The transverse postmedian band not reaching the suture; the |
| 26. | posthumeral spot triangular affinis Breun. 1939. On each elytron two rather large lateral dark brown spots nar- |
| 20. | rowly ringed with yellow bifuscomaculatus Breun. 1939. |
| | Elytra without similar spots |
| 27. | on dark brown, (one posthumeral, which descends obliquely |
| | from the lateral border to the disc; one postmedian which rises obliquely from the lateral border to the disc) |
| | dissimilis Pasc. 1867. |
| <u>-</u> | Elytra without these bands |
| 20. | the suture on a clear ground colour 29 |
| 20 | Elytra without this spot |
| 29. | distinctus Boisd, 1835. |
| — | This spot placed at the middle of the elytra |
| 30. | nigrotriangularis Hell. 1914. On each elytron two or three very narrow yellowish or whitish |
| | transverse lines or bands, distinct on a dark ground; the sur- |
| | face without a metallic lustre |
| 21 | lustre 37 |
| 31. | The premedian elytral band forms a large M. on both elytra together |
| | The premedian band straight or slightly curved |
| 32. | On each side of the frons is a large distinct ochraceous spot |
| | Frons without such a spot pulvereus Pasc. 1867. |
| <i></i> | Legs ferrugineous |
| 34. | Anterior elytral band reaching the suture, not very oblique |
| _ | Anterior elytral band not reaching the suture, extremely |
| | posteriorly oblique from disc to margin |
| 35. | |
| _ | This angle ending in a pointed lobe |
| 30, | Pronotal and elytral punctures surrounded with a small brown circle |
| | These punctures not surrounded with a brown circle |

| | 11 D . 1 1927 |
|-----|---|
| | oblongus Boisd. 1835. |
| 37. | On each elytron a rather broad premedian white transverse |
| | band, without any other white designs |
| | vinculatus Heller 1914. |
| _ | Elytra without a similar band, or with other markings present |
| | as well |
| 38. | Elytra marked with two to four, more or less broad, whitish |
| | or yellowish bands, of which one is premedian and one post- |
| | median (very rarely the premedian is atrophied); legs never |
| | formations and the premedian is altophically, legs never |
| | ferrugineous |
| 20 | Apical marginal elytral angle rounded |
| 39. | Apical marginal elytral angle rounded |
| į, | bifasciatus Breun. 1939. |
| | This angle never prominent |
| 40. | These bands interrupted by numerous small spots of the ground |
| | colour, thus forming a network of light colour |
| | politus Blanch. 1853. |
| _ | These bands compact, or formed of elongate spots placed one |
| | at the side of the other schaumi Pasc. 1867. |
| 41. | Pronotum and elytra marked with narrow curved white bands; |
| | the fourth antennal segment white, except the apex |
| | excellens Auriv. 1908. |
| | Elytra without these markings; the fourth antennal segment |
| | not white |
| 42. | Pronotal disc with five longitudinal brown bands 43 |
| | |
| 43. | Lateral pronotal spine scarcely marked inermis Breun. 1939. |
| _ | Lateral pronotal spine very distinct |
| 44. | Apical marginal elytral angle rounded |
| | Apical marginal elytral angle pointed 47 |
| 45 | Apical marginal elytral angle pointed |
| 13. | yellow transverse bands strandi Breun. 1939. |
| | Elytra dark brown or black, glabrous except for pale yellowish |
| | or golden spots, not forming four transverse bands 46 |
| 46 | Pubescence pale yellowish-brown; elytral maculae not very |
| 10. | alanguta distinctly broken and almost no dissal spots in the |
| | elongate, distinctly broken and almost no discal spots in the basal median two-thirds; circa 10 mms |
| | |
| | Pubescence of golden scales; elytral maculae elongate, four in |
| _ | basal half, five in apical half; circa 20 mms |
| | |
| 47 | Femora reddish-yellow continentalis Breun. 1945. |
| 17. | E de la la la de la la de la companione de la Control 1976. |
| 10 | Femora dark brown monticola Gestro 1876. Elytra marked with a rather broad, transverse, postmedian |
| 70. | Elytra marked with a rather broad, transverse, postmedian |
| | white band |
| 40 | Elytra without this band |
| 49. | On each elytron a narrow whitish band, which begins on the |
| | disc at the basal quarter and extends obliquely behind to the |
| | middle of the lateral border obliquefasciatus Breun. 1939. |
| — | Elytra without a similar band 50 |

| cence | |
|---|---|
| with dense pubescence | then covered |
| ucase parcetones | 54 |
| 51. Lateral pronotal spine scarcely marked pullu | s Breun. 1945. |
| This spine very distinct | 52 |
| 52. Elytra without a transverse preapical greyish band | Montry 1855 |
| — Elytra marked with such a band | 53 |
| Elytra marked with such a band53. Apical elytral marginal angle scarcely marked | |
| petechia | lis Pasc. 1867. |
| — This angle ending in a triangular lobe | |
| 54. On each elytron a yellowish line which extends f | |
| of the base obliquely to the suture, which it i | eaches a little |
| before the middle | 55 |
| — Elytra without this line | 57 |
| Femora and scape greenish | 56 |
| 56. The narrow yellow marking distinct, M-shaped | , and reaching |
| the suture; the premedian elytral brown macu | la triangularly |
| pointed apically hieroglyphicus | Blanch, 1853. |
| The narrow yellow markings indistinct, not reaching the suture; the premedian elytral brown | |
| | wii illuculu ilot |
| triangularly pointed apically aubrooki | Gilmour 1949. |
| triangularly pointed apically aubrooki 57. On each elytron a small, postmedian, lateral, | clear yellowish |
| triangularly pointed apically aubrooki 57. On each elytron a small, postmedian, lateral, spot on a dark brown ground | clear yellowish 58 |
| triangularly pointed apically | clear yellowish 58 59 |
| triangularly pointed apically | clear yellowish 58 59 cus Pasc. 1862. |
| triangularly pointed apically | clear yellowish |
| triangularly pointed apically | clear yellowish |
| triangularly pointed apically | clear yellowish 58 59 59 cus Pasc. 1862 62 60 64 61 61 62 63 63 64 64 65 65 64 66 62 67 62 68 62 69 64 60 62 61 62 62 63 63 64 64 65 65 64 66 65 67 65 68 65 69 65 60 65 61 65 62 65 63 65 64 65 65 65 66 65 67 65 68 65 69 65 60 65 60 65 60 65 60 |
| triangularly pointed apically | De Jong 1941. De Jong 1941. 60 64 allic spot 61 nds 62 d spine 62 s Breun, 1939. s Auriv, 1907. |
| triangularly pointed apically | De Jong 1941. De Jong 1941. 60 64 allic spot 62 d spine 8 Breun 1939, 18 Auriv, 1907. bands; their |
| triangularly pointed apically | De Jong 1941. De Jong 1941. 60. 64. Allic spot 61. d spine |
| triangularly pointed apically | De Jong 1941. De Jong 1941. 60 64 allic spot 61 dd spine |
| triangularly pointed apically | De Jong 1941. De Jong 1941. 60. 64. Allic spot 61. d spine |
| triangularly pointed apically | De Jong 1941. De Jong 1941. 60 64 fillic spot 61 d spine |
| triangularly pointed apically | De Jong 1941. De Jong 1941. 60 64 fillic spot 61 ds spine |
| triangularly pointed apically | De Jong 1941. De Jong 1941. 60 64 fillic spot 61 as Breun. 1939. s Breun. 1939. s Auriv. 1907. bands; their Schwarz. 1931. 1 Jordan 1894. |
| triangularly pointed apically | De Jong 1941. De Jong 1941. 60 fillic spot 61 allic spot 62 d spine 62 d spine 62 s Breun. 1939. s Auriv. 1907. bands; their Schwarz. 1931. 1 Jordan 1894. |

| | band, or some similarly coloured distinct spots 66 |
|------|---|
| | Elytra without a similar lateral band or spots |
| 66. | |
| | band on the anterior half marginalis Breun. 1939. |
| _ | This band not bordered by a rosy band |
| 67. | Elytra obliquely truncate apically; the marginal angle not |
| | spined |
| | Elytra emarginate apically; the marginal angle spined 70 |
| 68. | Elytra marked with some oblique brown bands, which rise to |
| | the suture (interrupted by some longitudinal yellow lines) |
| | |
| | Elytra without similar bands |
| 09. | On each elytron a curved longitudinal band underneath the |
| | humerus |
| 70 | Elytra marked with a rather large glabrous smooth and shining |
| , 0. | postscutellar spot |
| _ | Elytra without such a spot |
| 71. | Elytra without discal dark brown bands |
| | agriloides Pasc. 1867. |
| | Elytra marked with such bands, which reach the suture 72 |
| 72. | The median dark brown elytral band in a zigzag |
| | pseudointricatus Breun. 1939. |
| _ | The median dark brown elytral band in a slight arc, (with the |
| 72 | concavity towards the apex) pseudotessellatus Breun. 1939. |
| 13. | The lateral brown pronotal band completely covering the lateral |
| | spine |
| | latero-superior tubercle |
| 74. | Elytral disc covered with reddish-brown to yellowish-brown |
| | uniform pubescence |
| | Elytral disc marked with a dark brown design on a lighter |
| | base |
| 75. | At the lateral border of the elytra a longitudinal dark brown |
| | band |
| _ | At the lateral border of the elytra two dark brown spots (one |
| 76 | before and one after the middle) elateroides Gestro 1876. Elytra marked with a dark brown postmedian transverse |
| 70. | band tessellatus Boisd. 1835. |
| | Elytra without a similar band |
| 77. | Pronotum without a median longitudinal brown band 78 |
| | |
| 78. | Elytra with four longitudinal yellow lines, and yellow spots in |
| | the apical third lineatus M'Leav 1886. |
| _ | Elytra without such yellow lines and spots |
| | laterimaculatus Gilmour 1949. |
| 79. | The lateral dark brown elytral band interrupted by three yellow |
| | spots (a premedian, a postmedian and a preapical) |
| | This hand interpreted by a single median wellow good. |
| _ | This band interrupted by a single median yellow spot |

| | lateralis M'Leav 1886. |
|-----|---|
| 80 | Elytra without a transverse brown band in the posterior |
| 00. | half |
| | Elytra marked with such a band 82 |
| 01 | All the basal quarter of the elytra finely pubescent, and thus |
| 01. | darker than the rest transversatus Breun. 1939. |
| | darker than the rest |
| _ | In the basal quarter of the elytra, only the lateral border, and |
| | a postscutellar spot covered with a finer pubescence and thus |
| | appearing darker densepunctatus Breun. 1939. On the lateral parts of the pronotum a broad longitudinal dark |
| 82. | On the lateral parts of the pronotum a broad longitudinal dark |
| | brown band |
| | Pronotum without a similar band |
| | |
| 83. | Apical marginal elytral spine long intricatus Pasc. 1867. |
| — | This spine short ornatus Breun. 1939. |
| 84. | This spine short |
| | pubescence, except for a median transverse brown band, or a |
| | lateral transverse brown spot |
| _ | Elytra marked with designs, or without a similar band or |
| | spot 88 |
| 85. | The brown elytral marking a spot, not passing the middle of |
| | the disc towards the suture |
| _ | This band reaching the suture |
| 86. | Elytra marbled with light reddish-brown |
| | lugubris Breun. 1939. |
| | Elytra marbled with greyish teragramus sp. nov. |
| 87. | This hand is narrow; all the pubescence grevish |
| | griseus Thoms. 1865. This band is broad; the pubescence reddish-brown |
| _ | This hand is broad: the pubescence reddish-brown |
| | divisus Auriv. 1927. |
| 88. | Elytra with some raised carinae or discal grooves 89 |
| _ | Elytra without such raised carinae or grooves 99 |
| 89. | On each elytron a very distinct ovular ochreous-yellow spot at |
| | the side of the scutellum bifoveatus Auriv. 1926. |
| | Elytra without this spot |
| 90 | Apical elytral marginal angle rounded |
| _ | This angle not rounded |
| 91 | Elytra marked with a transverse denuded band |
| 71. | |
| | Elytra without this band |
| 92 | Elytra with a narrow postscutellar glabrous spot |
| 12. | |
| | Elytra without this spot strigosus Pasc. 1867. |
| 03 | Apical marginal angle spinous costipennis Breun. 1940. |
| 93. | Apical marginal angle spinous Costipenius Dieuii. 1910. Apical marginal angle ending in a spine |
| 04 | Pronotal disc very finely punctured |
| 97. | Pronotal disc very linely punctured |
| 05 | Elytra with a broad straight, denuded, transverse band a little |
| 95. | often the middle straight, definded, transverse band a fittle |
| | after the middle |
| | Elytra without a similar band virescens Dreun, 1939. |

| 96. | Femora and first three antennal segments clear green viridis Gestro 1876. |
|-----------|---|
| 97. | Femora and first three antennal segments dark brown 97 On each elytron an elongate whitish-yellow spot at each side of the scutellum schraderi Kriesche 1926. |
| <u> </u> | Elytra without a similar spot |
| _ | This spot reddish papuanus Breun. 1945. Apical marginal elytral angle ending in a spine 100 |
| | This angle not ending in a spine 105 |
| 100. | Femora green, almost without pubescence |
| — | Femora brown, covered with dense yellowish or greyish pubescence |
| 101. | Head and pronotum marked with metallic gold pubescence |
| _ | metalliceps Breun. 1940. These parts without this metallic pubescence |
| 102. | The postscutellar impunctate spot is covered with pubescence |
| 103. | This spot without pubescence |
| _ | This spot transverse 104 |
| 104. | transversus Pasc. 1867. |
| — 105. | This spine rather long unipunctatus Guer. 1835. Each elytron marked with a curved transverse postmedian |
| | band and another preapical zigzag one, of an ochreous colour |
| | Elytra without these bands |
| 106. | Apical marginal elytral angle triangularly prominent |
| 107. | This angle rounded |
| | with three denuded black longitudinal bands |
| _ | Pronotum without similar bands 108 |
| 108. | Tibiae clear red, contrasting strongly with the femora |
| _ | Tibiae greenish, the same as the femora |
| | |
| | |
| | Subgenus Arrhenotus Pascoe |
| 1. | Elytra unicolorous, reddish, bearing some broad, smooth longitudinal carinae |
| _ | Elytra not unicolorous, without similar carinae |
| _ | Elytra without these spots |

| 3. Apical marginal elytral angle spinous imitans Breun. 1939. — This angle rounded ochraceosignatus Breun. 1939. 4. Almost completely covered with bluish-green metallic scales |
|---|
| rafaelae Lansb. 1885. — Surface without metallic scales |
| Pronotum without a similar band Femora dark brown Femora reddish, covered with fine yellow pubescence 11 |
| 7. Femora covered with dense yellowish-brown pubescence; elytra without golden spots |
| 8. Apical sutural elytral angle pointed; the marginal prominent; pale ochraceous-yellow pubescent, elytra brokenly maculate venatus Thoms. 1864. |
| — Apical sutural elytral angle prolonged; the marginal pointed; yellowish-brown pubescent, the elytra with vague, transverse brown bands |
| 9. Elytra marked with transverse, more or less complete bands, and elongate spots |
| 10. Elytral spots large, in three series |
| 11. On each elytron a large lateral median round yellow spot prasinatus Heller 1914. Elytra without this spot |
| 12. On each elytron a longitudinal dark brown band at the lateral border |
| longitudinal series |
| 14. Completely covered with pale yellow pubescence, this pubescence denser in places on the elytra in the grooves |
| Otherwise marked 15. Elytra covered with brown pubescence and each marked with some longitudinal yellow bands Otherwise pubescent 16 |
| 16. Pronotum covered with yellowish-brown pubescence and marked on each side with a narrow longitudinal black band, which passes by the lateral spine timorlautensis Breun. 1939. |
| Pronotum not marked thus 17 17. On each elytron a large round lateral posthumeral distinct light spot 18 |

| — Elytra without a similar spot |
|--|
| ludificator Heller 1914. |
| Elytra without conspicuous grooves |
| and one postmedian; without a spot at the marginal apical |
| third, or a crescentic median sutural spot |
| - Elytra without narrow ochraceous bands; with an oblique |
| marginal spot at the apical third and a crescentic median sutural spot |
| 20. Élytra bearing some deep longitudinal grooves |
| Elytra without these grooves, except perhaps a few close to the suture |
| 21. Apical marginal angle rounded |
| Apical marginal angle distinct |
| cence pale yellow, not condensed into transverse bands |
| margaretae Gilmour 1949. No elytral grooves in the lateral third; elytral pubescence light |
| reddish brown, and condensed into transverse bands |
| |
| vague irregularis Gestro 1876. |
| — Humeri not prominent; the preapical band distinct |
| 24. Each elytron with a distinct yellow line (on dark ground), which descends obliquely from the humerus to the suture and |
| returns to the lateral border |
| Elytra without a similar line |
| apical quarter biarcifer Blanch. 1853. |
| This line reaches the lateral border before the beginning of the apical third |
| 26. Elytra marbled with yellow, except on a broad transverse |
| median brown band which rises obliquely towards the suture; the longitudinal lateral carina of the pronotum not very |
| the longitudinal lateral carina of the pronotum not very pronounced |
| nent |
| 27. Apical marginal elytral angle ending in a rather long pointed spine 28 |
| spine |
| 28. Lateral pronotal spine slender and pointed |
| — This spine longer and conical |
| 29. Elytra marked with distinct ochraceous spots ochreomaculatus Breun. 1945. |
| — Elytra without similar spots |
| 50. Lacir crytton with two fongitudinal discar carmae |

| | albertisi Breun. 1939. |
|-------------|--|
| | Elytra without similar carinae |
| 31 | Elytra without a postscutellar smooth spot |
| J1. | canofasciatus Auriv. 1927. |
| | Elytra bearing a postscutellar smooth spot |
| 32 | Apical marginal elytral spine is long froggatti M'Leay 1886. |
| J2. | This spine is short brevespinosus Breun. & De Jong 1941. |
| | Pronotum bearing a broad median longitudinal smooth black |
| <i>JJ</i> . | band |
| | Pronotum without this band |
| 21 | Apical sutural elytral angle prolonged in a prominent rounded |
| 57. | lobe; the marginal angle equally distinct |
| | This angle not prolonged in a lobe; the marginal angle ef- |
| | faced |
| 35. | |
| JJ. | spots |
| | The postscutellar spot surrounded with small light spots |
| | lictorius Pasc. 1867. |
| 36 | Elytral apex bisinuate; between the sutural and apical angles |
| 50. | an obtuse projection |
| | Elytral apex not bisinuate, without this projection |
| 37 | The postmedian and preapical elytral bands are narrow and |
| 51. | yellowish |
| | The bands greyish and broader viridescens Thoms. 1864. |
| 38 | Elytra without any yellow markings in the posterior half |
| 50. | florensis Breun. 1948. |
| | Elytra with yellow markings in the posterior half |
| 30 | Elytra with only some small yellow spots in the posterior |
| 39. | half pseudosuperans Breun. 1939. |
| | Each elytron with a transverse yellowish postmedian band, |
| | which descends to the lateral border |
| 40. | This band is rather broad superans Pasc. 1867. |
| | |
| 41. | This band is suddenly angled; another band premedially in |
| 11. | the shape of a large M adspersarius Breun. 1939. |
| | This band is slightly and regularly arced: no Mashaned |
| | premedian hand pseudoviridescens Breun 1939 |
| 42. | This band is slightly and regularly arced; no M-shaped premedian band pseudoviridescens Breun. 1939. On each elytron a round discal distinct yellow or ochraceous |
| | spot |
| | Elytra without a similar spot |
| 43. | The light elytral spots not surrounded with dark pubescence; |
| 10. | the apical elytral marginal angle not very prominent 44 |
| | The light elytral spots distinctly surrounded with dark pubes- |
| | cence; the apical elytral marginal angle more prominent 45 |
| 44. | The elytral suture with a single common yellowish spot a little |
| | behind the middle septempunctatus Boisd. 1835. |
| | The suture with two common yellowish spots, the postmedian |
| | rather larger, and a smaller one a little before the middle |
| | octopunctatus Gilmour 1949. |
| 45. | The postmedian sutural common elytral yellowish spot without |
| | The state of the s |

| a small oval spot laterally on each side |
|--|
| sexmaculatus Breun. & De Jong 1941. |
| - This spot with a small distinct oval spot touching laterally on |
| each side novemmaculatus Gilmour 1949. |
| 46. On each elytron a small posthumeral lateral round whitish |
| spot, but no premedian line or band |
| Elytra always marked with yellowish or greyish-blue premedian |
| line or band |
| 47 El-4- with a national land land and |
| 47. Elytra with a postscutellar glabrous spot |
| trapezicollis Heller 1914. |
| — Elytra without a similar spot curvatolineatus Auriv. 1927. |
| 48. This band is a little broad, and rises obliquely towards the |
| humerus |
| - This band is very narrow, and descends obliquely towards |
| the lateral border, or is ring-shaped |
| 49. On each elytron a distinct lateral round yellow spot, a little |
| before the middle separatus Auriv. 1927. |
| — Elytra without this spotziczac Breun. 1939. |
| 50. This band rises as far as the suture |
| obliquelineatus Breun. 1939. |
| This band redescends close to the suture and forms with that |
| of the other side a large M, or is closed again posteriorly 51 |
| 51. This band is rather vague |
| - This band is distinct |
| 52. This band is yellowish |
| This band is greyish-blue vagejaspideus Gilmour 1949. |
| |
| 53. The apex of the premedian band is placed close to the second |
| external discal carina mimethes Kriesche 1926. |
| - The apex of the band is placed close to the internal discal |
| carina sepicanus Kriesche 1926. |
| |
| I have not seen the following species, described by Breuning |
| (1948, Bull. Mus. hist. nat. Belg. 24. (38). 33-6), and have been |
| unable to place them conclusively in the above key: — |
| T. (A.) pseudagrarius Breun. (New Guinea) — close to agrarius |

T. (A.) pseudagrarius Breun. (New Guinea) — close to agrarius Pasc.

T. (A.) geniculatus Breun. (Flores) — ? runs to 10. seriemaculatus Breun.

T. (A.) postflavescens Breun. (Japen Isl.) — ? runs to 31. canofasciatus Auriv.

T. (A.) laticollis Breun. (New Guinea) — ? runs to 21 or 27.